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	Application No.	Applicant(s)	/
Notice of Allowability	10/606,022 Examiner	BOYD ET AL. Art Unit	
	Joseph L. Perrin, Ph.D.	1746	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this of or other appropriate communic RIGHTS. This application is subj	s application. If not included ation will be mailed in due course. <b>THIS</b>	S ative
1. $\boxtimes$ This communication is responsive to <u>amendment with RC</u>	E filed 21 March 2007.		
2.  The allowed claim(s) is/are <u>11-14,17-20,22,23 and 26-30</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority u a) ☐ All b) ☐ Some* c) ☐ None of the:	ınder 35 U.S.C. § 119(a)-(d) or (	).	
<ol> <li>Certified copies of the priority documents hav</li> </ol>			
<ol><li>Certified copies of the priority documents hav</li></ol>			
<ol><li>Copies of the certified copies of the priority do</li></ol>	ocuments have been received in	this national stage application from the	:
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a remaining of this application.	eply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMI ves reason(s) why the oath or de	NER'S AMENDMENT or NOTICE OF claration is deficient.	
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ist be submitted.		
(a) including changes required by the Notice of Draftsper		PTO-948) attached	
1)  hereto or 2)  to Paper No./Mail Date		,	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment or in	he Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the d the header according to 37 CFR 1	rawings in the front (not the back) of 121(d).	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATERI FOR THE DEPOSIT OF BIOLO	AL must be submitted. Note the GICAL MATERIAL.	
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Inform	nal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		• •	
	Paper No./Ma	Date <u>20070316</u> .	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 20070209</li> </ol>	7. 🛛 Examiner's Am	endment/Comment .	
4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Sta	tement of Reasons for Allowance	
of Biological Material	9.		

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**EXAMINER'S AMENDMENT & STATEMENT OF REASONS FOR ALLOWANCE** 

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Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview

with Mr. George B. Leavell on 03 April 2007.

3. The application has been amended as follows:

**Claim 28**:

In line 13, delete "an in-situ sensor for monitoring a result of the process".

In lines 14-15, delete "surface tension gradient device" and insert therefor

--proximity head--.

Claim 30:

In lines 18-19, delete "surface tension gradient device" and insert therefor

--proximity head--.

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## Allowable Subject Matter

4. Claims 11-14, 17-20, 22-23 & 26-30 are allowed.

- 5. The following is a statement of reasons for allowance: The closest prior art of record, U.S. Patent No. 6,230,722 to MITSUMORI *et al.*, fails to teach each and every limitation of the instant invention. Specifically, MITSUMORI fails to teach or reasonably suggest the claimed substrate wafer processing system comprising, *inter alia*, a surface tension gradient device with a head having a plurality of fluid delivery conduits and a plurality of fluid removing conduits, the conduits extending through the head to a surface of the head having flat surface regions with the capability of forming a fluid meniscus between the surface of the flat proximity head and the substrate, or the combination of the head with an in-situ sensor controlled by a system controller, as described in claims in at least independent claims 11, 28 & 30.
- 6. Further, the prior art of record fails to provide the requisite motivation for making the instantly claimed combination. For at least the foregoing reasons, claims 11-14, 17-20, 22-23 & 26-30 are believed to recite patentable subject matter.
- 7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Perrin, Ph.D. whose telephone number is

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(571)272-1305. The examiner can normally be reached on M-F 7:00-4:30, except alternate Fridays.

- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joseph L. Perrin, Ph.D. Primary Examiner

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